

# iFORTE® FS

Even the mighty need the right protection!  
With unique game-changing patented technology, you can shift the power outside, rain or shine, dust, smoke and haze, with the iFORTE®!

**Light source**

TE™ 1.000W iSE White LED TRANSFERABLE ENGINE

**Light output**

up to 50.000 lm, 113.000 lx@5m, Cpulse™ special flicker free management for HD and UHD cameras, ready for 8K and 16K

**Zoom range**

5° - 55°

**Effects**

2 rotating gobo wheels, 2 color wheels, animation wheel, frost, iris, 6-facet circular and linear prisms, framing shutters



The most powerful member of the Robe iSeries, the IP65-rated iFORTE® combines far-reaching output and feature-rich effects in a fully protected package, capable of handling all the challenges of being outdoors.

iFORTE® negates the traditional weight penalty associated with IP-rated fixtures being only 1.5 kg heavier than the indoor FORTE®. With its class-leading form factor, size and appearance, and all the features and identical performance of the indoor original, iFORTE® enables seamless integration with each other, even on the same truss if desired! The ingenious ingress protection system has been specifically designed to allow standard maintenance and preparation procedures, such as TRANSFERABLE ENGINE exchange and gobo replacement without any additional tools, as gobo change or maintenance work can be done on-site.

The onboard RAINS™ (Robe Automatic Ingress Neutralization System) manages humidity, temperature and pressure control using an active monitoring system to automatically remove any moisture detected within the fixture and provides constant monitoring to ensure peak performance. iFORTE® automatically runs a self-test every time it senses a cover was removed and replaced. This self-test, taking no more than 3 minutes, provides an error message if covers were not replaced correctly or locking screws were incorrectly tightened (Patent pending). Their lightweight magnesium alloy covers, with aluminium alloy structure, provide a dust-free environment for the optics, eliminating the need for frequent cleaning, routine maintenance, and UV damage to plastic parts.

To maintain consistently high lumen output, even with the rigours of outdoor performance, water, dirt, dust, haze, and smoke are repelled from the front lens with our unique parCoat™ hydrophobic, oleophobic resistant coating. Furthermore, it allows easy removal without scratching or damage.

By including NFC (Near-Field Communication) technology, you can access setup, diagnostic and performance features, even when the fixture is not powered, directly from your mobile device using the Robe Com app.

iFORTE® is available with a choice of patented IP65-rated iSE-TE™ 1000W White LED TRANSFERABLE ENGINES; HP (High Performance) 6.700 K, 50.000 lm (Integrating sphere) CRI70; HCF (High Colour Fidelity) 6.000 K, 35.000 lm (Integrating sphere) CRI 96. The identical 11:1 zoom optical system, with a 5.5° to 55° zoom range, provides all the flexibility you require.

Removing the need for distracting pre-use pan and tilt calibration movement, our patented MAPS™ (Motionless Absolute Positioning System) allows the fixture to fully calibrate while remaining static. Very useful when fixtures are located within confined spaces.

Our cutting-edge CMY colour mixing system provides beautifully smooth mixing and transitions. Combined with two colour wheels, CRI 80 and 90 filters (HP Engine), and a variable CTO from 3.000 - 6.700 K give iFORTE® total colour finesse.

With the patented Plano4™ four individual plane framing shutters, two fully indexable rotating gobo wheels, an animation wheel, two independent 6-facet prisms and two MagFrost 1° and 5° frosts, you have all the creative tools you need.

Keeping up with technological advances, for television users, Cpulse™ is included for flicker-free management of HD and UHD camera systems.

The iFORTE® FollowSpot is equipped with a full HD digital camera mounted on the head, again with parCoat™ lens protection. The IP65-rated camera features 32x optical and 32x digital zooms and is suitable for light levels down to 0.05 lux. It connects to the industry-leading RoboSpot™ BaseStation for remote-controlled follow spot operation.

iFORTE® FS - Robe reliability in all weathers.

# Technical Specification

## Source

- Light source type: TE™ 1.000W iSE HP White LED Engine (Patented):
  - HP - High Performance Engine for maximum light output and optimal colour characteristics
  - LED Engine output: 82.000 lm
  - Fixture total lumen output:
    - 50.000 lm (integrating sphere)
    - 40.000 lm (goniophotometer)
  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 113.000 lx @ 5 m
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  - Colour temperature output: 6.700 K
  - CRI: 70, remotely selectable filters for CRI 80 and CRI 90
  - Illuminance: 113.000 lx @ 5 m
- Light source type: TE™ 1.000W iSE HCF White LED Engine (Patented):

## Optical system

- Robe's proprietary optical design
- High-efficiency 13-lens zoom optical system, ratio: 11:1
- Zoom range: 5° - 55°
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- Zoom range: 5° - 55°

## Dynamic Effects and Features

- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%
- Cyan: 0 - 100%
- Magenta: 0 - 100%
- Yellow: 0 - 100%

## Control and programming

- Setting & Addressing: ROBE Navigation System 2 (RNS2)
- Display: QVGA Robe touch screen with battery backup, gravitation sensor for auto screen positioning, operation memory service log with RTC, stand-alone operation with 3 editable programs (each up to 100 steps), built-in analyser for easy fault finding, NFC app controller
- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN
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- Protocols: USITT DMX-512, RDM, ArtNet, MA Net, MA Net2, sACN

## Movement

- Pan movement: 540°
- Tilt movement: 270°
- Movement control: Standard and Speed
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- Tilt movement: 270°
- Movement control: Standard and Speed

## Rotating gobos

- 12x fully rotating, indexable glass gobos on two wheels
- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm
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- Outside diameter: 30.8 mm
- Image diameter: 25.0 mm

## Effect wheel

- Single animation wheel
- Material: Aluminium
- Diameter: 112 mm
- Single animation wheel
- Material: Aluminium
- Diameter: 112 mm

## Camera

- Type: XNZ-L6320A
- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom:
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- Resolution: 1920 x 1080, 16:9 Full HD (1080p) resolution support
- Zoom:

## Framing shutters system

- Patented Plano4™ framing shutters module
- Shutters: 4 Blades, each with separate movement and +- 25° rotation control
- Movement: Smooth with variable speed, ultra-fast for creating mid-air effects
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- Shutters: 4 Blades, each with separate movement and +- 25° rotation control
- Movement: Smooth with variable speed, ultra-fast for creating mid-air effects

## Thermal specification

- Maximum ambient temperature: 50 °C (122 °F)
- Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -50 °C (-58 °F)
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- Maximum surface temperature: 80 °C (176 °F)
- Minimum operating temperature: -50 °C (-58 °F)

## Noise Levels

- Sound pressure level:
  - 22 dB(A) at 1 m (super quiet mode)
  - 38 dB(A) at 1 m (quiet mode)
  - 42 dB(A) at 1 m (auto mode)
  - 49 dB(A) at 1 m (high mode)
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- Sound pressure level:
  - 22 dB(A) at 1 m (super quiet mode)
  - 38 dB(A) at 1 m (quiet mode)
  - 42 dB(A) at 1 m (auto mode)
  - 49 dB(A) at 1 m (high mode)
- Sound power level:

## Electrical specification and connections

- Power supply: Electronic auto-ranging
- Input voltage range: 100-240 V, 50/60 Hz
- Power consumption: max. 1250 W
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- Power consumption: max. 1250 W

## Approvals

- CE Compliant
- cETLus Compliant
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- cETLus Compliant

## Mechanical specification

- Height: 837 mm (32.96") - head in vertical position
- Width: 480 mm (18.89")
- Depth: 335 mm (13.1") - head in vertical position
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- Width: 480 mm (18.89")
- Depth: 335 mm (13.1") - head in vertical position

## Rigging

- Mounting positions: 0°, 32°, 90°
- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points
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- Universal operating position
- Mounting points: 5 pairs of 1/4-turn locking points

## Included items

- User Manual
- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector:
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- Omega Adaptor CL-regular 2 pcs
- Power cord including powerCON TRUE1 In connector:

## Optional accessories

- iFORTE iSE-TE™ 1.000W HP White LED Engine: 14080081
- iFORTE iSE-TE™ 1.000W HCF White LED Engine: 14080082
- Frost 0.5° (exchange) assembled: 10980581
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- iFORTE iSE-TE™ 1.000W HCF White LED Engine: 14080082
- Frost 0.5° (exchange) assembled: 10980581

## Legal

- iFORTE® is Registered Trademark of Robe lighting s. r. o.
- iFORTE® FS is patented by Robe lighting s. r. o. and is protected by one or more pending or issued patents
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## Gobos&Colours

### Rotating Gobo Wheel 1



15020396



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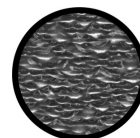
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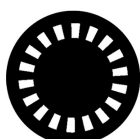


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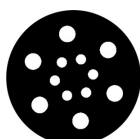
### Rotating Gobo Wheel 2



15020401



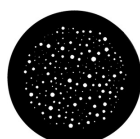
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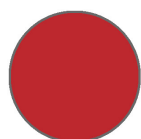


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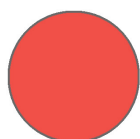
### Colour Wheel 1



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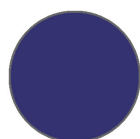
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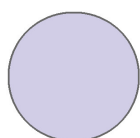
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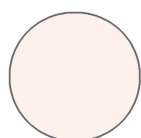
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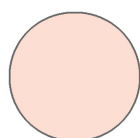
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### Animation Wheel



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